Girl Scouts Silver Award Community Service Project to Reduce Plastic Pollution



- Saving the oceans of Half Moon Bay/El
 Granada from plastic waste
- Installing a refillable water bottle station at Johnson Pier public bathroom

60% of wildlife have decreased since 1970!
One plastic bottle takes ~450 years to
decompose!

Why Johnson Pier?

- Actively used by locals and tourists
- Available plumbing
- Easily accessible
- Major sports and fishing harbor
- Many public events hosted
- Attracts tourism
- Coastal trail heavily used

Benefits of Refillable Water Bottle Stations

- Cleaner
- Encourages hydration
- Reduces Spending
- Helps Environment

Data Analysis

Plastic bottles are the 3rd most-littered item in the world

- Studies have proven that water bottle refill stations reduce single-use plastic bottles
 - The Success of Water Refill Stations Reducing Single-Use Plastic Bottle Litter
 - The Use and Efficacy of Water Bottle Filling Stations as a Sustainability Initiative for Reducing Environmental Impact

Estimated Costs

Product cost

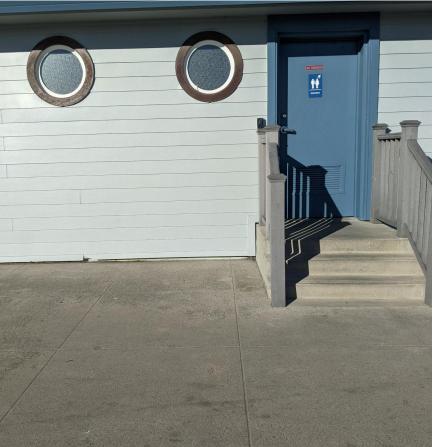
HALSEY TAYLOR 4405BF

- \$2,562.85

ELKAY VRC8WSK - \$1,869.85

- Installation cost Yet to be determined. Estimated amount \$2,000-\$3,000
- Maintenance cost Yet to be determined







HALSEY TAYLOR 4405BF

bottlefillingstations.com

\$2562.85

L: 10"

W: 19-1/8"

H: 32"



ELKAY VRC8WSK

bottlefillingstations.com

\$1,869.85 Stainless Steel

L: 18"

W: 18-5/8"

H: 38-13/16"

Measuring the Effectiveness

- Survey local beach cleanup organizations
- Elkay bottle filling station has a bottle counter on it

Overall Plan

Once Harbor District approves plans to move forward:

- Finalize location
 - > Johnson Pier
- Purchase Water Refill Station (\$1800 \$2600)
- Contact contractor and get an estimate for installation
- Use small business profits and possible GoFundMe account for expenses

